Whole blood processing kit

Technical data sheet

Cytodelics AB, Stockholm, Sweden

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Cytodelics

1. Store kit components properly after arrival

Storage	Kit component
5 – 8 ˚C	Stabiliser Fix-Concentrate
+20˚C	Fix-Diluent LYSIS buffer (4× concentrated) WASH buffer (5× concentrated)
All kit components are stable for 2 years if stored properly	

2. Reconstitute LYSIS and WASH buffer concentrates with diH_2O

LYSIS and WASH buffer reconstitution				
Buffer	Supplemented as	Concentrate : diH_2O volume ratio	Example (1 liter preparation)	
			Concentrate volume	diH_2O volume
LYSIS	4× concentrate	1:3	250 ml	750 ml
WASH	5× concentrate	1:4	200 ml	800 ml

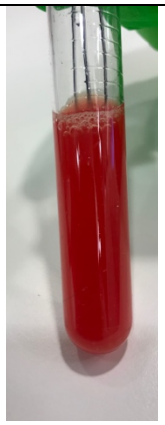
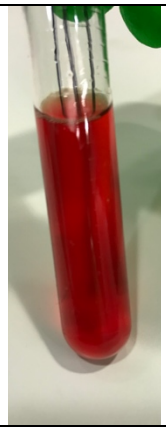
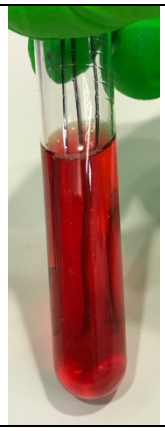
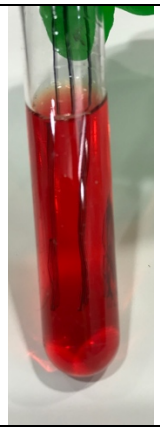
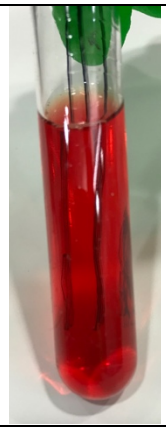
3. Prepare Fix buffer prior to use by mixing Fix-Concentrate and Fix-Diluent in ratio 1:1

4. Follow recommended scaling ratios:

Scaling up ratios		
Blood	1 : 1	Cytodelics Stabiliser
Blood	1 : 10	Fixation buffer
Blood	1 : 40	LYSIS buffer
Blood	1 : 40	WASH buffer

Examples of recommended processing conditions						
Blood sample volume	Stabiliser volume	Recommended cryogenic vial size	Fix buffer volume	LYSIS buffer volume	WASH buffer volume	Recommended processing tube size
100 µl	100 µl	1 ml	1.0 ml	4.0 ml	4.0 ml	10 – 15 ml
250 µl	250 µl	1 ml	2.5 ml	10 ml	10 ml	15 ml
500 µl	500 µl	2 ml	5.0 ml	20.0 ml	20.0 ml	50 ml
1.0 ml	1.0 ml	3-4 ml	10.0 ml	39.0 ml	40.0 ml	50 ml

5. Guide on decision of RBCs lysis step duration:

Time after addition of LYSIS buffer						
						
	0 min	5-6 min	10 min	15 min	20 min	35 min
	No	No	No	OK	OK	OK
Conditions: Fresh whole blood fixed for 15 min at RT followed by addition of LYSIS buffer						